

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PRINCIPAL FACTS FOR GRAVITY PROFILES
NEAR SOUTH PENOBCOT, MAINE

By

Robert W. Simpson and Paul LaPierre

Open-File Report 79-767

1979

PRINCIPAL FACTS FOR GRAVITY PROFILES

NEAR SOUTH PENOBCOT, MAINE

By Robert W. Simpson and Paul LaPierre

Explanation of the headings of the accompanying table of principal facts:

STATION IDENTIFICATION	The numbers in the second column give the distance in feet of a station along a profile.
LATITUDE	North latitude in degrees, minutes, and hundredths of minutes.
LONGITUDE	West longitude in degrees, minutes, and hundredths of minutes.
ELE	Elevation in feet (to convert to meters, multiply by 0.348). Elevations were surveyed from benchmarks, and accuracy is estimated to be better than <u>± 0.5 ft.</u>
OBSERVED GRAVITY	Relative to a value of 980606.3 milligals at University of Maine gravity base station WU-12, Orono, Maine (Behrendt and Woppard, 1961). Also, 13.7 milligals was subtracted from the observed gravity value to adjust to the International Gravity Standardization Net of 1971 (Morelli, 1974). Relative precision of values is estimated to be better than <u>± 0.2 milligals.</u>

THEORETICAL GRAVITY	Calculated using the Geodetic Reference System 1967 (International Association of Geodesy, 1971).
TERRAIN CORRECTION	Terrain corrections have been calculated from 0.895 km to 166.7 km from a station using a modification of the terrain correction program of Plouff (1977). No corrections have been applied for the zones closer than 0.895 km, but errors resulting from this omission are estimated to be less than 0.1 mgal.
BOUGUER CORRECTION	Simple Bouguer slab correction using a density of 2.67 g per cm ³ .
CURVATURE CORRECTION	Adjustment to Bouguer slab for curvature of earth (Lambert, 1930).
SPECIAL CORRECTION	Not used.
FREE AIR ANOMALY	Free air anomaly in milligals.
BOUGUER ANOMALY	Bouguer anomaly in milligals calculated using densities of 2.67 g per cm ³ and 2.76 g per cm ³ .

REFERENCES

- Behrendt, J. C., and Woppard, G. P., 1961, An evaluation of the gravity control network in North America: Geophysics, v. 26, no. 1, p. 57-76.
- International Association of Geodesy, 1971, Geodetic reference system 1967: International Association of Geodesy Special Publication no. 3, 116 p.
- Lambert, W. D., 1930, The reduction of observed values of gravity to sea level: Bulletin geodesique, no. 26, Avril-mai-juin, p. 107-181.
- Morelli, C., (ed.), 1974, The international gravity standardization net 1971: International Association of Geodesy Special Publication no. 4, 194 p.

Plouff, D., 1977, Preliminary documentation for a FORTRAN program to
compute gravity terrain corrections based on topography digitized on
a geographic grid: U.S. Geological Survey Open-File Report 77-534,
45 p.

HORIZONTAL GRAVITY DATA

NEW ENGLAND GRAVITY REDUCED AT USGS NO. 10, 1911 FORMULA

Meter Tu: Warden-40 Date: 03/20/19

STATION	LATITUDE	LONGITUDE	TIME	GRAVITY	CORRECTION	SPECIAL	FREE AIR	NORMALISATION
NUMBER	deg min	deg min	sec	REFINED THEORETICAL	TO DUTCH	TO DUTCH	TO DUTCH	COMPARISON
start	first	last	(in ft)					
K04 -163	44 25.39	-60 58.11	123.3	gR0546.60	-0.01	-4.20	-0.05	-6.59
K05 -162	44 25.62	-60 58.20	112.4	gR0546.81	-0.01	-5.65	-0.05	-7.05
K06 -161	44 25.75	-60 58.34	152.0	gR0546.48	-0.01	-5.21	-0.07	-5.94
K07 -160	44 25.65	-60 58.42	408.9	gR0540.02	0.05	-1.13	-0.09	-1.43
K08 -159	44 25.59	-60 58.40	235.5	gR0538.02	0.09	-0.13	-0.10	-1.33
								-12.24
K09 -158	44 25.40	-60 58.51	210.8	gR0536.11	0.14	-8.89	-0.11	-12.41
K10 -157	44 25.40	-60 58.50	262.0	gR0535.77	0.15	-8.97	-0.12	-12.54
K11 -156	44 25.32	-60 58.61	254.4	gR0535.84	0.14	-8.65	-0.11	-12.57
K12 -155	44 25.27	-60 58.64	252.0	gR0536.10	0.13	-8.70	-0.11	-12.56
K13 -154	44 25.21	-60 58.67	247.5	gR0536.52	0.12	-8.44	-0.11	-12.18
								-12.65
K14 -153	44 25.16	-60 58.73	216.6	gR0536.46	0.12	-6.42	-0.11	-12.21
A -152	0	44 25.12	58.75	gR0536.50	0.11	-6.28	-0.11	-12.50
A -0	0	44 25.12	58.75	gR0536.42	0.11	-6.29	-0.11	-12.63
R -1	44 25.04	58.81	32.0	gR0536.50	0.10	-7.94	-0.10	-12.53
C -6	44 25.07	58.80	225.7	gR0537.41	0.08	-7.63	-0.10	-12.42
								-12.65
D -9	100.7	44 22.43	-60 58.87	214.2	gR0536.46	0.12	-6.42	-0.09
1 -10	131.8	44 22.42	-60 58.94	192.0	gR0536.50	0.11	-6.28	-0.09
2 -11	174.7	44 22.47	-60 59.02	160.5	gR0536.47	0.11	-6.29	-0.09
3 -12	222.0	44 22.08	-60 59.14	131.2	gR0542.84	0.09	-4.47	-0.06
4 -13	271.4	44 22.06	-60 59.23	105.5	gR0544.24	0.01	-3.59	-0.05
								-12.64
5 -14	314.9	44 22.04	-60 59.35	104.5	gR0544.06	0.07	-3.51	-0.09
6 -14A	342.3	44 22.03	-60 59.46	122.7	gR0543.01	0.05	-5.57	-0.08
7 -17	422.0	44 22.03	-60 59.57	119.9	gR0543.24	0.02	-5.47	-0.07
8 -18	441.4	44 22.03	-60 59.62	125.6	gR0542.97	0.00	-4.47	-0.06
9 -19	464.9	44 22.03	-60 59.63	127.0	gR0543.08	-0.01	-4.53	-0.05
								-12.63
10 -20	500.2	44 22.07	-60 59.69	132.3	gR0542.80	0.00	-5.57	-0.05
11 -21	545.6	44 22.43	-60 59.77	107.0	gR0544.62	0.01	-4.18	-0.05
12 -22	572.1	44 22.47	-60 59.81	105.5	gR0545.15	0.01	-4.09	-0.05
13 -23	616.0	44 22.97	-60 59.81	105.4	gR0545.07	0.02	-5.61	-0.05
14 -24	602.0	44 23.02	-60 59.81	107.3	gR0545.14	0.02	-5.62	-0.05
								-12.62
15 -25	634.8	44 23.07	-60 59.81	110.0	gR0544.51	0.01	-4.05	-0.05
15 -26	664.8	44 23.07	-60 59.81	110.0	gR0544.61	0.01	-4.05	-0.05
15 -27	660.5	44 23.12	-60 59.82	105.7	gR0545.70	0.02	-5.23	-0.05
16 -25	700.9	44 23.18	-60 59.84	113.1	gR0545.24	0.01	-5.06	-0.05
17 -26	745.3	44 23.21	-60 59.88	90.1	gR0546.75	0.02	-5.07	-0.04
								-11.98
18 -25	785.3	44 23.24	-60 59.94	110.0	gR0544.56	0.03	-4.05	-0.05
19 -26	814.5	44 23.52	-60 40.00	54.6	gR0548.74	0.02	-5.04	-0.05
20 -27	846.1	44 23.25	-60 40.00	51.2	gR0549.23	0.03	-4.05	-0.05
20 -28	846.1	44 23.55	-60 40.00	57.4	gR0549.11	0.02	-5.06	-0.05
								-11.98

BULIGER GRAVITY DATA

WATER TU: WORCESTER-90 Date: 03/20/19
NEW ENGLAND GRAVITY: REDUCED BY USGS REC. 10, 1971 FURNILIA

page 2

station	identification	latitude	longitude	elevation	depth	min	max	mean	sigma	statistic	GRAVITY		CORRECTION		ANOMALIES	
											dist	min	max	dist	min	max
21	-58	0812	44 23.28	-66 40.13	55.5	MF	YR0549.71	980565.81	-0.04	-1.69	-0.02	0.00	-8.82	-10.78	-10.64	
21	-84	0812	44 25.34	-66 40.13	56.0	MF	YR0549.65	980565.81	-0.04	-1.91	-0.02	0.00	-8.89	-10.87	-10.93	
22	-40	9248	44 25.43	-66 40.19	56.1	MF	YR0551.35	980565.81	-0.04	-1.23	-0.02	0.00	-9.15	-10.43	-10.47	
23	-41	9602	44 25.46	-66 40.20	24.0	MF	YR0552.03	980565.84	-0.04	-0.49	-0.01	0.00	-9.16	-10.20	-10.23	
24	-42	10045	44 23.50	-66 40.34	46.3	MF	YR0551.05	980565.99	-0.04	-1.05	-0.02	0.00	-8.41	-10.11	-10.17	
25	-43	10434	44 25.51	-66 40.41	56.5	MF	YR0551.11	980565.94	-0.04	-1.12	-0.02	0.00	-8.20	-9.96	-10.03	
26	-44	10552	44 25.57	-66 40.46	57.0	MF	YR0550.79	980564.10	-0.04	-2.02	-0.03	0.00	-7.74	-9.62	-9.69	
27	-292	10522	44 25.57	-66 40.46	57.4	MF	YR0550.67	980564.10	-0.04	-2.03	-0.03	0.00	-7.84	-9.93	-9.99	
27	-45	11102	44 25.61	-66 40.53	60.1	MF	YR0551.02	980564.16	-0.04	-2.04	-0.03	0.00	-7.51	-9.61	-9.67	
27	-292	11102	44 25.61	-66 40.53	60.1	MF	YR0550.94	980564.16	-0.04	-2.05	-0.03	0.00	-7.51	-9.63	-9.69	
28	-46	11528	44 25.65	-66 40.60	62.3	MF	YR0550.73	980564.02	-0.04	-2.13	-0.03	0.00	-7.62	-9.62	-9.68	
29	-47	11650	44 25.69	-66 40.67	51.4	MF	YR0552.50	980564.08	-0.05	-1.07	-0.01	0.00	-8.76	-9.90	-9.93	
30	-48	12314	44 25.73	-66 40.73	15.3	MF	YR0553.48	980564.36	-0.14	-0.52	-0.01	0.00	-9.45	-10.00	-10.02	
31	-50	12749	44 25.77	-66 40.83	11.3	MF	YR0553.69	980564.40	-0.14	-0.54	-0.01	0.00	-9.65	-10.08	-10.10	
32	-51	13133	44 25.81	-66 40.90	25.5	MF	YR0552.97	980564.46	-0.05	-0.67	-0.01	0.00	-9.09	-10.02	-10.05	
33	-52	13607	44 25.85	-66 40.98	114.2	MF	YR0551.63	980564.52	-0.05	-1.51	-0.02	0.00	-8.74	-10.31	-10.36	
34	-53	14076	44 25.90	-66 41.09	59.0	MF	YR0552.34	980564.59	-0.04	-2.04	-0.03	0.00	-8.49	-10.59	-10.66	
35	-54	14705	44 25.95	-66 41.20	90.0	MF	YR0553.60	980564.67	-0.03	-5.07	-0.04	0.00	-7.64	-10.74	-10.84	
37	-55	15173	44 25.97	-66 41.27	64.7	MF	YR0553.64	980564.72	-0.04	-2.58	-0.03	0.00	-8.52	-10.97	-11.04	
38	-56	15175	44 24.02	-66 41.34	46.0	MF	YR0550.74	980564.78	-0.05	-1.66	-0.02	0.00	-9.47	-11.19	-11.25	
39	-57	15607	44 25.05	-66 41.98	114.2	MF	YR0551.63	980564.52	-0.05	-1.51	-0.02	0.00	-8.74	-10.31	-10.36	
39	-53	15901	44 24.06	-66 41.09	59.0	MF	YR0552.34	980564.59	-0.04	-2.04	-0.03	0.00	-8.49	-10.59	-10.66	
39	-293	16308	44 24.11	-66 41.20	90.0	MF	YR0553.60	980564.67	-0.03	-5.07	-0.04	0.00	-7.64	-10.74	-10.84	
40	-59	16368	44 24.11	-66 41.53	52.0	MF	YR0554.54	980564.91	-0.04	-1.07	-0.02	0.00	-10.24	-12.13	-12.20	
41	-91	16452	44 24.15	-66 41.62	86.0	MF	YR0554.76	980564.98	-0.05	-2.96	-0.04	0.00	-9.20	-12.23	-12.32	
41	-293	16981	44 24.06	-66 41.45	54.0	MF	YR0550.01	980564.84	-0.04	-1.66	-0.02	0.00	-9.71	-11.63	-11.69	
42	-62	17251	44 24.17	-66 41.69	95.4	MF	YR0554.70	980565.01	-0.02	-1.87	-0.02	0.00	-9.80	-11.73	-11.79	
43	-63	17641	44 24.23	-66 41.75	102.4	MF	YR0556.17	980565.09	-0.02	-2.48	-0.05	0.00	-9.02	-12.57	-12.68	
44	-64	18050	44 24.27	-66 41.80	103.5	MF	YR0556.26	980565.16	-0.02	-3.53	-0.05	0.00	-9.16	-12.76	-12.87	
45	-65	18442	44 24.29	-66 41.85	90.5	MF	YR0557.03	980565.23	-0.05	-3.09	-0.04	0.00	-9.69	-12.84	-12.94	
46	-66	18848	44 24.15	-66 41.62	67.1	MF	YR0557.44	980564.98	-0.04	-2.97	-0.04	0.00	-9.29	-12.33	-12.42	
47	-67	19259	44 24.46	-66 41.93	86.5	MF	YR0558.09	980565.01	-0.02	-5.25	-0.04	0.00	-8.94	-12.26	-12.36	
48	-68	19659	44 24.52	-66 41.95	94.2	MF	YR0558.46	980565.03	-0.02	-2.48	-0.05	0.00	-9.02	-12.57	-12.68	
49	-69	19724	44 24.56	-66 41.90	100.0	MF	YR0558.52	980565.09	-0.02	-3.53	-0.05	0.00	-9.16	-12.76	-12.87	
50	-70	20316	44 24.02	-66 42.01	121.2	MF	YR0554.25	980565.08	-0.01	-4.13	-0.05	0.00	-9.69	-12.84	-12.94	
51	-71	20771	44 24.04	-66 42.05	120.3	MF	YR0554.28	980565.07	-0.01	-4.11	-0.05	0.00	-11.50	-15.73	-15.85	
62	-72	564	44 24.17	-66 42.12	102.1	MF	YR0554.01	980565.01	-0.01	-4.65	-0.06	0.00	-11.54	-16.44	-16.59	
63	-73	954	44 24.03	-66 42.15	146.0	MF	YR0554.35	980566.00	-0.02	-5.05	-0.07	0.00	-11.73	-16.02	-16.17	
64	-74	1110	44 24.00	-66 42.14	166.3	MF	YR0554.00	980566.01	-0.01	-5.67	-0.06	0.00	-11.46	-17.34	-17.50	
65	-75	1769	44 24.05	-66 42.25	166.5	MF	YR0554.83	980566.08	-0.04	-5.68	-0.07	0.00	-11.69	-17.40	-17.57	

NORTHENGLAND GRAVITY: REDUCED BY USGS REC. 10, 1971 FUPILLIA

meter f.u.: Noru-en=40 date: 03/20/79

STATION NUMBER station dist	LATITUDE deg min sec	LONGITUDE deg min sec	C A T I O N S		GRAVITY UNREMOVED	TERRAIN CORRECTION	CORRECTION S		SPECIAL	FREE AIR d=2.67 d2=2.75
			ELT	ST (in ft)			0.05	-0.08		
60 -60 2163 44 25.01 -60 42.27 175.4 ME YRUS53R.22 9805660.27 0.05 -0.03 -0.08 0.00 -11.64 -17.65 -17.83										
61 -61 6748 44 25.09 -60 42.31 175.9 MF YRUS53R.00 9805660.59 0.05 -0.07 -0.08 0.00 -11.94 -17.93 -18.11										
62 -62 5102 44 25.15 -60 42.34 164.5 ME YRUS53R.51 9805660.48 0.03 -0.01 -0.07 0.00 -12.50 -16.32										
63 -63 3576 44 25.21 -60 42.36 155.5 ME YRUS53R.21 9805660.57 0.02 -0.20 -0.07 0.00 -13.04 -16.28										
70 -64 4196 44 2 .51 -60 42.40 142.2 ME YRUS53R.64 9805660.73 0.01 -0.05 -0.06 0.00 -13.71 -16.61										
71 -50 4662 44 25.40 -60 42.43 104.8 MF YRUS541.85 9805660.06 0.02 -0.57 -0.05 0.00 -15.15 -16.90										
72 -29 5121 44 25.45 -60 42.51 75.9 MF YRUS543.74 9805660.94 0.02 -0.59 -0.13 0.00 -16.06 -18.70 -18.78										
73 -28 5517 44 25.50 -60 42.50 60.5 MF YRUS544.21 9805661.01 0.03 -0.24 -0.05 0.00 -16.30 -16.55 -16.82										
75 1 5746 44 25.52 -60 42.59 70.6 MF YRUS544.20 9805661.04 0.03 -0.41 -0.03 0.00 -16.14 -16.66 -16.74										
76 -5 44 25.56 -60 42.67 67.4 MF YRUS544.50 9805661.10 0.03 -0.30 -0.03 0.00 -16.18 -16.54 -16.61										
77 -4 845 44 25.00 -60 42.75 90.3 MF YRUS544.11 9805661.16 0.03 -0.75 -0.04 0.00 -15.41 -16.23 -18.31										
77 -20 845 44 25.00 -60 42.75 76.6 MF YRUS544.10 9805661.16 0.03 -2.68 -0.03 0.00 -15.67 -16.41 -16.50										
78 -20 1270 44 25.06 -60 42.82 92.1 MF YRUS543.58 9805661.45 0.03 -5.14 -0.04 0.00 -15.01 -16.22 -16.32										
79 -67 1492 44 25.16 -60 42.85 103.6 MF YRUS543.50 9805661.40 0.02 -3.54 -0.05 0.00 -16.01 -16.12 -16.18										
A1 -38 629 44 25.67 -60 42.88 141.6 MF YRUS541.23 9805661.60 0.01 -4.63 -0.06 0.00 -13.05 -17.93 -18.08										
B3 -69 3464 44 26.03 -60 42.87 157.0 MF YRUS540.44 9805667.81 0.02 -2.37 -0.07 0.00 -12.55 -16.98 -18.17										
A3 -29 3464 44 26.03 -60 42.87 158.1 MF YRUS540.39 9805667.81 0.02 -0.39 -0.07 0.00 -12.35 -16.41 -18.16										
B4 -29 3805 44 26.10 -60 42.87 167.1 MF YRUS540.85 9805667.91 0.03 -0.70 -0.07 0.00 -12.35 -16.09 -18.26										
A5 -47 4301 44 26.16 -60 42.82 187.0 MF YRUS540.57 9805668.01 0.03 -0.38 -0.08 0.00 -11.85 -16.25 -16.44										
B7 -41 5167 44 26.27 -60 42.69 201.5 MF YRUS540.72 9805668.17 0.03 -0.87 -0.09 0.00 -11.50 -16.59 -16.59										
A9 -42 6016 44 26.36 -60 42.54 200.2 MF YRUS540.40 9805668.50 0.07 -6.83 -0.09 0.00 -11.71 -16.55 -16.76										
91 -43 723 44 26.45 -60 42.45 200.2 MF YRUS547.88 9805668.45 0.07 -6.93 -0.07 0.00 -12.13 -16.58 -16.78										
93 -44 1618 44 26.34 -60 42.30 142.0 MF YRUS549.03 9805668.04 0.05 -0.26 -0.08 0.00 -12.34 -16.04 -16.62										
95 -45 2627 44 26.11 -60 42.17 156.4 MF YRUS549.97 9805668.84 0.01 -2.54 -0.07 0.00 -13.12 -16.55 -16.71										
95 -50 2600 44 26.11 -60 42.17 156.7 MF YRUS540.90 9805668.04 0.01 -5.25 -0.07 0.00 -13.11 -16.51 -16.68										
97 -46 3147 44 26.19 -60 42.15 147.5 MF YRUS541.67 9805669.95 0.01 -5.09 -0.07 0.00 -13.24 -16.39 -16.54										
97 -46 3707 44 26.37 -60 42.17 137.2 MF YRUS542.80 9805669.08 0.01 -4.08 -0.06 0.00 -13.37 -16.11 -18.26										
97 -46 3707 44 26.07 -60 42.17 136.0 MF YRUS542.72 9805669.84 0.01 -4.71 -0.06 0.00 -13.36 -16.15 -16.29										
97 -47 4553 44 27.00 -60 42.21 131.1 MF YRUS547.00 9805669.27 0.01 -2.84 -0.06 0.00 -14.34 -17.50 -17.59										
201A-49 5320 44 27.14 -60 42.20 28.2 MF YRUS541.17 9805669.48 0.04 -0.97 -0.01 0.00 -15.63 -16.66 -16.69										
201A-50 5320 44 27.14 -60 42.20 20.4 MF YRUS541.14 9805669.48 0.04 -9.97 -0.01 0.00 -15.67 -16.69 -16.72										
202 -504 5728 44 27.02 -60 42.18 52.1 MF YRUS540.07 9805669.57 0.04 -1.60 -0.02 0.00 -14.55 -16.46										
203 -49 6221 44 27.29 -60 42.19 66.1 MF YRUS540.69 9805669.71 0.04 -6.52 -0.03 0.00 -13.74 -16.10 -16.17										
204 -272 6742 44 27.55 -60 42.23 67.7 ME YRUS549.93 9805669.00 0.04 -2.51 -0.03 0.00 -13.51 -15.89 -15.96										
205 -215 7340 44 27.44 -60 42.31 69.1 ME YRUS549.16 9805669.94 0.04 -2.56 -0.03 0.00 -13.34 -15.76 -15.84										
206 -204 1816 44 27.52 -60 42.34 72.2 MF YRUS549.14 9805670.05 0.04 -2.47 -0.03 0.00 -13.14 -15.68 -15.76										
207 -205 8154 44 27.62 -60 42.36 55.2 MF YRUS549.33 9805670.21 0.05 -1.68 -0.02 0.00 -13.69 -15.65 -15.70										
208 -206 8809 44 27.67 -60 42.45 35.9 MF YRUS549.64 9805670.48 0.05 -1.62 -0.02 0.00 -14.20 -15.53 -15.57										
209 -207 9457 44 27.15 -60 42.54 10.2 MF YRUS549.30 9805670.41 0.04 -0.25 -0.01 0.00 -15.00 -15.45 -15.46										
211 -204 10450 44 27.84 -60 42.72 30.1 MF YRUS549.64 9805670.54 0.05 -1.25 -0.01 0.00 -14.45 -15.77 -15.80										

RUGGUT GRAVITY DATA

NETTNGLAND GRAVITY: REDUCED BY USGS DFC. 10, 1971 FURNESS
Veteran ID: noruen-940 Date: 03/20/79

STATION NUMBER	LATITUDE DEG MIN	LONGITUDE DEG MIN	DIA DEG MIN	S1 MIN	UNREFINED THEORETICAL GRAVITY (in ft)	COMPARISONS		SPECIAL AIR d1=2.07 d2=2.75
						REFRACTION CURV	FREE COMPLEX-F-RUGGUT AIR	
213 -210	44 21.49	44 21.46	-68 42.62	53.5 .NF	YR0551.90	0.0570.12	-1.03 -0.02	-13.70 -15.60
215 -211	44 21.9	44 20.13	-68 42.51	60.0 .NF	YR0551.96	0.0570.18	-2.27 -0.03	-13.25 -15.59
217 -212	44 20.1	44 20.17	-68 42.33	01.3 .NF	YR0550.71	0.0571.04	-2.18 -0.04	-12.68 -15.52
219 -213	44 29.18	44 20.27	-68 42.18	42.7 .NF	YR0550.91	0.0571.50	-2.05 -0.04	-12.42 -15.44
221 -214	44 28.98	44 28.59	-68 42.01	11.6 .NF	YR0549.92	0.0571.57	-3.16 -0.05	-11.08 -14.92
227 -215	44 40.5	44 28.44	-68 41.90	127.5 .NF	YR0549.11	0.0571.45	-4.35 -0.06	-10.26 -14.84
229 -216	44 15.9	44 20.55	-68 41.73	173.2 .NF	YR0547.20	0.0571.61	-5.57 -0.07	-9.02 -14.09
230 -401	44 20.22	44 26.59	-68 41.64	171.1 .NF	YR0541.67	0.0571.04	-5.03 -0.08	-8.54 -14.40
231 -402	44 25.18	44 28.04	-68 41.56	177.0 .NF	YR0546.74	0.0571.14	-6.06 -0.08	-8.26 -14.38
232 -403	44 29.60	44 28.71	-68 41.47	135.0 .NF	YR0546.84	0.0571.05	-6.24 -0.08	-7.80 -14.29
233 -404	44 55.35	44 28.78	-68 41.43	172.2 .NF	YR0547.96	0.0571.45	-5.92 -0.08	-7.68 -13.85
"170 -215	44 41.20	44 26.37	-68 41.39	176.6 .NF	YR0548.54	0.0572.09	-6.00 -0.08	-6.94 -13.21
235 -384	44 32.3	44 20.41	-68 41.35	164.6 .NF	YR0549.61	0.0572.16	-5.45 -0.07	-7.55 -13.22
236 -385	44 7.8	44 20.47	-68 41.32	157.1 .NF	YR0549.94	0.0572.24	-5.56 -0.07	-7.46 -13.08
237 -386	44 11.42	44 29.01	-68 41.33	155.0 .NF	YR0550.50	0.0572.35	-5.29 -0.07	-7.20 -12.72
238 -387	44 15.0	44 29.11	-68 41.34	176.2 .NF	YR0550.84	0.0572.45	-5.20 -0.07	-7.27 -12.71
239 -388	44 19.6	44 29.18	-68 41.37	165.3 .NF	YR0550.54	0.0572.56	-5.05 -0.07	-6.93 -12.63
240 -389	44 23.6	44 29.24	-68 41.35	167.1 .NF	YR0549.86	0.0572.05	-5.77 -0.07	-7.55 -12.73
241 -390	44 28.47	44 29.01	-68 41.32	156.1 .NF	YR0549.19	0.0572.13	-6.18 -0.08	-7.46 -12.90
242 -405	44 53.05	44 24.52	-68 41.29	155.0 .NF	YR0549.90	0.0572.17	-6.34 -0.08	-6.51 -12.95
243 -410	44 58.75	44 29.11	-68 41.03	177.1 .NF	YR0546.25	0.0572.06	-6.01 -0.07	-7.27 -12.55
244 -411	44 43.45	44 24.45	-68 41.02	171.1 .NF	YR0545.90	0.0572.56	-7.90 -0.10	-6.93 -12.06
245 -412	44 47.8	44 29.53	-68 40.98	172.1 .NF	YR0545.90	0.0572.07	-7.05 -0.10	-5.50 -12.52
246 -413	44 53.03	44 29.01	-68 40.97	167.1 .NF	YR0545.55	0.0572.21	-6.19 -0.11	-5.06 -13.53
247 -414	44 58.44	44 29.01	-68 40.94	171.1 .NF	YR0544.57	0.0573.34	-6.01 -0.12	-3.94 -13.26
248 -415	44 64.9	44 29.19	-68 40.92	170.1 .NF	YR0546.25	0.0572.06	-7.19 -0.10	-5.14 -13.23
249 -416	44 58.05	44 29.06	-68 40.92	171.1 .NF	YR0544.06	0.0573.59	-6.04 -0.12	-5.20 -13.40
250 -417	44 13.37	44 29.41	-68 40.92	170.1 .NF	YR0543.92	0.0573.70	-7.03 -0.10	-6.00 -13.52
251 -421	44 17.47	44 30.01	-68 40.91	166.1 .NF	YR0544.86	0.0573.81	-6.19 -0.11	-5.06 -13.57
252 -414	44 62.42	44 30.08	-68 40.83	167.1 .NF	YR0544.34	0.0573.41	-6.03 -0.12	-4.00 -13.01
253 -415	44 67.58	44 30.15	-68 40.74	170.1 .NF	YR0543.70	0.0573.48	-6.09 -0.12	-3.39 -13.28
254 -416	44 52.62	44 30.22	-68 40.73	171.1 .NF	YR0544.32	0.0574.02	-6.25 -0.12	-3.16 -13.66
255 -417	44 71.17	44 30.27	-68 40.69	170.1 .NF	YR0545.11	0.0574.13	-6.44 -0.12	-3.76 -13.49
256 -418	44 10.17	44 30.54	-68 40.62	171.1 .NF	YR0545.56	0.0574.23	-6.03 -0.11	-4.56 -13.47
257 -422	44 10.717	44 30.44	-68 40.60	174.1 .NF	YR0543.92	0.0574.46	-6.01 -0.11	-3.94 -13.47
258 -423	44 11.03	44 30.49	-68 40.56	170.1 .NF	YR0542.57	0.0574.54	-6.22 -0.12	-3.53 -13.28
259 -424	44 11.70	44 30.26	-68 40.51	171.1 .NF	YR0541.90	0.0574.04	-6.95 -0.13	-6.52 -16.62
260 -425	44 10.26	44 30.63	-68 40.44	170.1 .NF	YR0540.90	0.0574.13	-7.07 -0.13	-6.74 -16.97
262 -427	44 12.05	44 30.16	-68 40.30	170.1 .NF	YR0539.70	0.0574.95	-10.90 -0.14	-6.34 -17.55
263 -423	44 13.38	44 30.02	-68 40.33	170.1 .NF	YR0537.65	0.0575.03	-11.59 -0.15	-5.99 -17.40

Meter IU: Norden=40 Date: 03/20/79

NET ENGLAND GRAVITY: REDUCED BY USGS DEC. 10, 1971 FURTHEM

STATION sta-id	LATITUDE deg min dist	C A T I O N min	L U C A T I O N min	S T min	UNSEALED min	G R A V I T Y min	I F K R A I N min	C O R R E C T I O N S min	I F K R A I N min	S P E C I A L min	F P E min	C O M P L E T E - R U U G L I E R AIR alpha=0.07 min	A N O M A L I E S alpha=2.75
204 -429	1580.6	44 30.69	-68 40.28	553.7	mF	YR0536.54	980575.14	6.16	-12.06 -0.15	0.04	-5.34	-17.39	-17.76
205 -430	1419.9	44 30.95	-68 40.20	563.9	mF	YR0535.64	980575.23	6.17	-12.41 -0.16	0.04	-5.36	-17.76	-18.13
206 -431	1419.9	44 31.04	-68 40.21	571.3	mE	YR0534.94	980575.52	6.18	-12.06 -0.16	0.04	-5.41	-16.95	-16.43
207 -432	1508.2	44 31.07	-68 40.11	573.5	mF	YR0534.72	980575.41	6.18	-12.4 / -0.16	0.04	-5.51	-18.29	-16.67
208 -433	1551.7	44 31.12	-68 40.02	584.3	mF	YR0533.94	980575.48	6.20	-15.11 -0.17	0.04	-5.55	-16.62	-19.02
209 -434	1594.9	44 31.16	-68 39.94	595.0	mF	YR0533.57	980575.55	6.19	-15.06 -0.17	0.04	-5.96	-19.00	-19.39
210 -435	1637.8	44 31.20	-68 39.86	571.4	mF	YR0534.04	980575.61	6.17	-12.07 -0.16	0.04	-6.66	-19.34	-19.72
271 -436	1682.4	44 31.24	-68 39.82	580.4	mF	YR0532.64	980575.66	6.19	-15.18 -0.17	0.04	-6.72	-19.88	-20.27
272 -437	1721.3	44 31.27	-68 39.73	417.4	mF	YR0530.17	980575.71	6.25	-14.24 -0.18	0.04	-6.29	-20.45	-20.88
F1 -556	0	44 24.74	-68 38.82	534.2	mE	YR0535.20	980575.41	6.13	-11.37 -0.15	0.04	-6.24	-17.83	-16.18
F2 -554	403	44 29.60	-68 38.87	526.0	mF	YR0536.04	980575.49	6.11	-11.15 -0.14	0.04	-6.66	-17.66	-18.20
F3 -560	703	44 29.05	-68 38.91	210.4	mF	YR0537.32	980575.57	6.19	-10.59 -0.14	0.04	-7.06	-17.69	-16.91
F4 -561	1143	44 29.41	-68 38.94	687.5	mF	YR0537.90	980575.66	6.06	-9.63 -0.12	0.04	-8.20	-17.09	-16.18
F5 -562	1512	44 29.56	-68 39.00	254.0	mF	YR0540.52	980575.67	6.04	-8.64 -0.11	0.04	-9.25	-16.50	-16.66
F6 -563	1948	44 30.02	-68 39.06	232.7	mE	YR0541.69	980575.63	6.03	-7.97 -0.10	0.04	-10.16	-16.20	-16.44
F7 -564	2349	44 30.07	-68 39.12	226.0	mE	YR0542.29	980575.90	6.03	-7.74 -0.10	0.04	-10.26	-18.09	-16.32
F8 -565	<747	44 30.11	-68 39.14	224.7	mF	YR0542.33	980575.94	6.03	-7.67 -0.10	0.04	-10.50	-18.23	-16.46
F9 -566	3270	44 30.16	-68 39.20	225.4	mF	YR0542.64	980574.04	6.03	-7.59 -0.10	0.04	-10.52	-16.17	-16.40
F10 -567	5620	44 30.21	-68 39.32	220.3	mE	YR0542.35	980574.11	6.03	-7.12 -0.10	0.04	-10.54	-16.52	-16.52
F11 -568	3972	44 30.27	-68 39.35	232.0	mF	YR0541.62	980574.20	6.03	-6.01 -0.10	0.04	-10.49	-18.57	-16.62
F12 -569	4770	44 30.54	-68 39.42	226.4	mF	YR0542.29	980574.51	6.03	-6.47 -0.11	0.04	-10.27	-18.82	-14.98
F13 -570	4749	44 30.40	-68 39.37	660.1	mF	YR0536.77	980574.40	6.04	-6.69 -0.11	0.04	-10.11	-14.07	-14.34
F14 -571	5145	44 30.46	-68 39.37	663.0	mF	YR0539.74	980574.47	6.04	-6.99 -0.12	0.04	-9.90	-14.02	-14.50
F15 -572	5257	44 31.52	-68 39.39	671.7	mF	YR0539.84	980574.56	6.04	-7.13 -0.12	0.04	-10.52	-14.17	-20.00
F16 -573	5918	44 30.58	-68 39.42	226.2	mF	YR0538.67	980574.67	6.04	-9.15 -0.12	0.04	-10.77	-20.00	-20.27
F17 -574	6314	44 30.61	-68 39.44	226.0	mF	YR0538.81	980574.77	6.04	-9.03 -0.12	0.04	-11.06	-21.00	-21.34
F18 -575	6647	44 30.70	-68 39.44	226.2	mF	YR0539.26	980574.85	6.04	-8.74 -0.11	0.04	-11.47	-21.50	-20.55
F19 -576	7103	44 30.77	-68 39.40	225.0	mF	YR0539.16	980574.96	6.04	-8.67 -0.11	0.04	-11.50	-20.61	-20.67
F20 -577	7199	44 30.82	-68 39.40	227.0	mF	YR0537.02	980575.02	6.05	-9.28 -0.12	0.04	-11.52	-21.06	-21.16
F21 -578	7405	44 30.89	-68 39.40	201.3	mE	YR0537.19	980575.14	6.06	-9.44 -0.13	0.04	-10.50	-20.56	-20.66
F22 -590	8271	44 30.46	-68 39.51	207.0	mE	YR0536.86	980575.24	6.07	-10.15 -0.13	0.04	-10.34	-20.60	-20.91
F23 -595	8656	44 31.02	-68 39.54	514.6	mE	YR0535.74	980575.54	6.08	-10.74 -0.14	0.04	-9.94	-20.73	-21.06
F24 -594	9047	44 31.08	-68 39.50	244.7	mF	YR0533.58	980575.42	6.13	-11.43 -0.15	0.04	-8.96	-20.41	-21.27
F25 -593	9401	44 31.15	-68 39.54	584.4	mF	YR0531.76	980575.53	6.18	-13.10 -0.17	0.04	-8.06	-21.14	-21.53
F26 -592	10001	44 31.24	-68 39.62	421.7	mF	YR0529.16	980575.66	6.26	-14.58 -0.14	0.04	-6.84	-21.15	-21.58
F27 -591	10613	44 31.51	-68 39.69	445.2	mE	YR0527.88	980575.77	6.25	-15.20 -0.19	0.04	-5.94	-21.06	-21.51
C2 -376	702	44 27.87	-68 42.80	294.4	mF	YR0533.30	980570.59	-U.05	-11.01 -0.01	0.04	-14.40	-15.53	-15.56
C3 -379	705	44 27.90	-68 42.80	25.6	mF	YR0533.53	980570.63	-U.05	-U.07 -U.01	0.04	-14.27	-15.20	-15.23
C4 -380	1145	44 27.92	-68 42.97	20.1	mF	YR0534.62	980570.66	-U.05	-U.08 -U.01	0.04	-14.15	-14.90	-14.92
C5 -381	1502	44 27.95	-68 43.05	26.0	mE	YR0534.81	980570.70	-U.05	-U.08 -U.01	0.04	-13.70	-14.53	-14.56

HIGHLIGHT GRAVITY DATA

Page 6

WATER LEVEL: WORCESTER Date: 03/20/19
 WILMINGTON GRAVITY: PRODUCED BY USGS DEC. 10, 1971 FURNACE

STATION sta-id	ELEVATION dist	LATITUDE deg min	LONGITUDE deg min	S tlt	N tlt	S tlt	UNKNWN (in ft)	GRAVITY		CORRECTION		ANOMALIES	
								UNKNWN	THERMOTICAL	UNKNOWN CURV	SPECIAL	FREQUENCY	COMPLIF-TUNGUER AIR
C0 -382	1842	44 21.97	-68 43.12	16.7 ME	YR0555.54	980570.73	-0.05	-0.64	-0.01	0.00	-13.44	-14.13	-14.16
C1 -383	2210	44 21.99	-68 43.20	10.9 MF	YR0556.31	980570.77	-0.04	-0.57	-0.00	0.00	-13.45	-13.64	-15.66
JP1 -102	457	44 25.48	-68 42.75	55.1 MF	YR0555.34	980566.98	-0.03	-1.81	-0.02	0.00	-16.64	-16.51	-16.56
JP2 -103	088	44 25.49	-68 42.70	45.1 MF	YR0556.84	980566.98	-0.03	-1.57	-0.02	0.00	-16.67	-16.28	-16.53
JP3 -104	1416	44 21.54	-68 42.82	41.04 MF	YR0560.74	980560.77	-0.04	-1.41	-0.02	0.00	-16.57	-16.05	-18.09
JP4 -105	1857	44 25.28	-68 42.80	29.0 ME	YR0557.15	980566.98	-0.04	-1.01	-0.01	0.00	-16.74	-17.04	-17.04
JP5 -106	2262	44 25.23	-68 42.93	30.0 MF	YR0547.25	980566.98	-0.04	-1.62	-0.01	0.00	-16.55	-17.61	-17.64
JP6 -107	2612	44 25.17	-68 42.99	34.2 MF	YR0547.26	980566.98	-0.04	-1.17	-0.02	0.00	-16.62	-17.24	-17.27
JP7 -108	3068	44 25.11	-68 43.03	50.9 MF	YR0546.61	980566.98	-0.05	-1.73	-0.02	0.00	-15.03	-16.84	-16.69
JP8 -109	3529	44 25.07	-68 43.08	54.1 MF	YR0546.80	980566.98	-0.05	-1.85	-0.02	0.00	-14.47	-16.39	-16.45
JP9 -110	3929	44 25.01	-68 43.12	37.9 ME	YR0548.11	980560.27	-0.05	-1.29	-0.02	0.00	-14.53	-15.99	-15.93
JP10-111	4170	44 24.97	-68 43.21	40.2 MF	YR0549.44	980560.21	-0.05	-1.57	-0.02	0.00	-13.93	-15.57	-15.42
JP11-112	4661	44 24.96	-68 43.27	65.0 MF	YR0547.52	980560.20	-0.05	-2.24	-0.03	0.00	-12.98	-14.90	-14.97
JP12-122	5157	44 24.91	-68 43.10	66.4 MF	YR0546.12	980560.12	-0.05	-2.33	-0.03	0.00	-11.57	-15.91	-14.05
JP12-112	5157	44 24.91	-68 43.18	66.4 MF	YR0548.19	980560.12	-0.05	-2.33	-0.03	0.00	-11.50	-13.98	
JP13-113	5553	44 24.87	-68 43.12	62.4 MF	YR0549.10	980560.06	-0.05	-2.13	-0.03	0.00	-11.09	-15.50	-13.36
JP15-114	5876	44 24.06	-68 43.50	70.9 MF	YR0549.46	980560.05	-0.05	-2.42	-0.03	0.00	-9.92	-12.42	-12.49
JP15-221	5876	44 24.06	-68 43.50	70.9 MF	YR0549.44	980560.05	-0.05	-2.42	-0.03	0.00	-9.94	-12.44	-12.52
JP16-222	0269	44 24.06	-68 43.50	62.0 MF	YR0549.31	980564.78	-0.05	-2.41	-0.03	0.00	-9.60	-11.06	-11.93
JP17-223	0445	44 24.06	-68 43.62	64.1 MF	YR0549.02	980564.70	-0.05	-2.19	-0.03	0.00	-9.20	-11.54	-11.61
U3 -116	3451	44 24.14	-68 43.45	62.4 MF	YR0549.64	980560.96	-0.05	-2.00	-0.03	0.00	-9.01	-12.07	-12.16
U4 -117	3067	44 24.09	-68 43.50	73.0 MF	YR0548.71	980564.88	-0.04	-2.52	-0.03	0.00	-9.22	-11.02	-11.09
U5 -120	2641	44 24.02	-68 41.91	76.0 MF	YR0549.31	980564.78	-0.04	-2.41	-0.03	0.00	-8.61	-11.49	-11.57
U6 -121	2241	44 25.07	-68 41.95	72.8 MF	YR0549.02	980564.70	-0.04	-2.52	-0.03	0.00	-8.74	-11.53	-11.41
U7 -122	1791	44 23.91	-68 41.89	76.2 MF	YR0549.80	980564.61	-0.04	-2.00	-0.03	0.00	-8.58	-11.26	-11.54
U8 -123	1329	44 25.07	-68 41.97	66.4 MF	YR0549.44	980564.55	-0.04	-3.00	-0.04	0.00	-9.01	-12.42	-12.49
U9 -124	955	44 23.04	-68 42.05	35.1 MF	YR0541.14	980564.21	-0.05	-1.20	-0.02	0.00	-10.06	-11.23	-11.36
U10 -125	674	44 23.03	-68 42.12	31.1 MF	YR0541.14	980564.49	-0.05	-1.20	-0.02	0.00	-10.09	-11.22	-11.25
U11 -126	249	44 23.05	-68 42.21	17.4 MF	YR0541.11	980564.32	-0.05	-2.39	-0.01	0.00	-10.78	-11.43	-11.45
U12-127	0	44 23.07	-68 42.27	15.2 MF	YR0542.13	980564.35	-0.05	-0.53	-0.01	0.00	-10.97	-11.55	-11.57
K1 -130	531	44 24.53	-68 41.85	101.5 MF	YR0545.07	980565.55	-0.02	-3.45	-0.04	0.00	-10.93	-14.47	-14.58
K2 -131	1753	44 24.28	-68 41.64	151.9 MF	YR0541.51	980562.03	-0.02	-2.16	-0.07	0.00	-9.70	-14.99	-15.15
K3 -132	211	44 24.02	-68 41.71	162.4 MF	YR0540.50	980562.68	-0.04	-2.64	-0.07	0.00	-9.50	-15.24	-15.41
K4 -133	3176	44 24.09	-68 41.60	152.4 MF	YR0540.01	980565.79	-0.02	-2.20	-0.07	0.00	-10.45	-15.09	-15.05
K5 -134	4306	44 24.17	-68 41.04	134.9 MF	YR0541.54	980563.91	-0.01	-1.17	-0.06	0.00	-11.16	-15.99	-16.14
K6 -135	5151	44 24.81	-68 40.80	126.0 MF	YR0542.40	980560.42	-0.01	-4.53	-0.06	0.00	-11.65	-16.02	-16.15
K7 -136	6046	44 24.07	-68 40.67	85.2 MF	YR0545.46	980560.06	-0.01	-4.42	-0.04	0.00	-12.52	-15.22	-15.61
K8 -137	1749	44 24.01	-68 40.71	34.3 MF	YR0549.14	980565.97	-0.03	-1.56	-0.02	0.00	-13.04	-14.44	-14.48
K9 -138	0445	44 24.15	-68 40.10	65.2 MF	YR0549.70	980565.88	-0.03	-2.17	-0.03	0.00	-10.29	-12.43	-12.49
K10 -140	9402	44 24.17	-68 39.92	55.5 MF	YR0551.06	980565.44	-0.03	-1.09	-0.02	0.00	-9.55	-11.50	-11.56

Bullulur Gravity Data

Water LV: Womenday Date: 03/20/79

Reduced At Usgs Sec. 10, 1971 Furnish

STATION	L	U	C	A	T	N	S	G R A V I T Y	C O R R E C T I O N S	A N O M A L I E S
STATION	dist	deg	min	sec	min	sec	ft	UNREFINED THEORETICAL	TERRAIN BOUNDARY	FREE AIR
station	dist	deg	min	sec	min	sec	ft	ME	CLIM	d1=2.07 d2=2.75
K20 -354	90.26	44	24.	.72	-68	39.	.81	90.2 ME	90.265 .84	-0.03
K21 -141	101.09	44	24.	.02	-68	39.	.61	90.214 .45	90.265 .84	-0.03
K21 -353	101.09	44	24.	.72	-68	39.	.67	90.214 .45	90.265 .94	-0.03
K22 -352	110.76	44	24.	.02	-68	39.	.55	90.265 .66	90.265 .84	-0.03
K23 -142	116.05	44	24.	.70	-68	39.	.44	90.250 .31	90.265 .80	-0.03
K24 -551	120.93	44	24.	.68	-68	39.	.37	90.250 .65	90.265 .77	-0.03
K25 -143	126.44	44	24.	.04	-68	39.	.21	90.250 .48 .02	90.265 .77	-0.03
K26 -350	150.11	44	24.	.08	-68	39.	.13	90.254 .72 /	90.265 .77	-0.03
K27 -145	155.53	44	24.	.08	-68	39.	.00	90.254 .70 /	90.265 .77	-0.03
K27 -504	155.53	44	24.	.08	-68	39.	.00	90.247 .10 /	90.265 .77	-0.03
K28 -510	140.67	44	24.	.08	-68	38.	.86	90.250 .65	90.265 .77	-0.03
K29 -146	145.40	44	24.	.08	-68	38.	.77	90.250 .62 .77	90.265 .77	-0.03
K31 -147	150.23	44	24.	.06	-68	38.	.58	90.250 .60 .02	90.265 .77	-0.03
K31 -544	154.43	44	24.	.06	-68	38.	.46	90.250 .60 .02	90.265 .77	-0.03
K32 -546	154.20	44	24.	.05	-68	38.	.16	90.250 .60 .02	90.265 .77	-0.03
K33 -140	163.42	44	24.	.05	-68	38.	.56	90.250 .62 .73	90.265 .77	-0.03
K33 -545	163.42	44	24.	.05	-68	38.	.30	90.250 .62 .32	90.265 .77	-0.03
K34 -514	160.85	44	24.	.03	-68	38.	.29	90.250 .61 .14	90.265 .77	-0.03
K35 -545	160.00	44	24.	.03	-68	38.	.25	90.250 .61 .04	90.265 .77	-0.03
K36 -542	170.93	44	24.	.06	-68	38.	.21	90.250 .61 .04	90.265 .77	-0.03
K38 -541	174.64	44	24.	.72	-68	38.	.23	90.250 .60 .05	90.265 .77	-0.03
K39 -504	176.03	44	24.	.76	-68	38.	.21	90.250 .60 .05	90.265 .77	-0.03
K41 -534	185.59	44	24.	.05	-68	38.	.08	90.250 .60 .04	90.265 .60 .03	-0.01
K43 -530	194.22	44	24.	.90	-68	38.	.00	90.250 .60 .04	90.265 .60 .10	-0.01
Q2 -164	440	44	23.	.07	-68	42.	.97	90.250 .62 .25	90.265 .64 .55	-0.01
Q5 -170	727	44	23.	.03	-68	42.	.44	90.250 .64 .49	90.265 .64 .49	-0.01
Q4 -171	1267	44	23.	.18	-68	42.	.51	90.250 .64 .92	90.265 .64 .41	-0.01
Q5 -172	1257	44	23.	.01	-68	42.	.68	90.250 .64 .92	90.265 .64 .30	-0.01
R0 -173	250.7	44	23.	.01	-68	42.	.68	90.250 .64 .76	90.265 .64 .30	-0.01
R0 -174	250.5	44	23.	.01	-68	42.	.70	90.250 .64 .78	90.265 .64 .37	-0.01
Q7 -174	440	44	23.	.07	-68	42.	.90	90.250 .64 .55	90.265 .64 .41	-0.01
Q8 -175	375.5	44	23.	.09	-68	43.	.02	90.250 .64 .76	90.265 .64 .43	-0.01
Q9 -176	430.8	44	23.	.01	-68	43.	.15	90.250 .64 .65	90.265 .64 .46	-0.01
Q10 -177	466.5	44	23.	.05	-68	43.	.20	90.250 .64 .82	90.265 .64 .52	-0.01
H11 -170	515.6	44	23.	.09	-68	43.	.28	90.250 .64 .65	90.265 .64 .54	-0.02
R12 -174	560.4	44	23.	.04	-68	43.	.34	90.250 .64 .50	90.265 .64 .66	-0.05
Q13 -181	614.1	44	23.	.07	-68	43.	.47	90.250 .64 .71	90.265 .64 .60	-0.06
Q13 -528	650.6	44	24.	.01	-68	43.	.50	90.250 .64 .75	90.265 .64 .62	-0.06
Q14 -180	695.5	44	24.	.02	-68	43.	.60	90.250 .64 .55	90.265 .64 .60	-0.06
H15 -327	693.5	44	24.	.02	-68	43.	.60	90.250 .64 .60	90.265 .64 .60	-0.06
H15 -184	740.9	44	24.	.06	-68	43.	.77	90.250 .64 .80	90.265 .64 .65	-0.06

WERNER J. KUHN U-349 T-2 PEGASUS H-1 USUS DEC-18 1961 FUEMMA

A N O M A L I E S									
C O R R E C T I O N S									
G R A V I T Y									
STATION	UNIDENTIFIED star-id	C A T I O N	LATITUDE deg min	LONGITUDE deg min	LLT, ST	unifined THERMOTEL	IRFRAIN BNOUGER CURV	SPECIAL	AIR
station	dist	min	(in ft)	min	min	min	min	min	dist
R116 -190	8007	44 24.10	-68 43.88	83.5 mF	YR0551.62	900564.90	-0.04	-2.05 -0.04	0.06
R117 -191	8664	44 24.16	-68 44.01	74.8 mE	YR0552.80	900564.99	-0.05	-2.42 -0.03	-5.43
R118 -331	7424	44 24.17	-68 44.14	40.0 mE	YR0553.90	900565.01	-0.06	-1.59 -0.02	-5.47
R119 -192	9244	44 24.17	-68 44.14	40.0 mF	YR0554.95	900565.01	-0.06	-1.59 -0.02	-5.47
R120 -330	9628	44 24.18	-68 44.22	40.2 mE	YR0555.02	900565.02	-0.06	-1.44 -0.02	-5.84
R121 -193	10003	44 24.19	-68 44.31	40.3 mF	YR0556.95	900565.03	-0.06	-1.58 -0.02	-6.04
R122 -194	10516	44 24.22	-68 44.42	36.2 mE	YR0557.99	900565.03	-0.06	-1.58 -0.02	-6.04
R123 -195	11125	44 24.23	-68 44.56	41.2 mE	YR0558.99	900565.09	-0.06	-1.50 -0.02	-6.73
R124 -196	11671	44 24.27	-68 44.60	43.1 mE	YR0559.94	900565.16	-0.06	-1.47 -0.02	-6.73
R125 -197	12449	44 24.28	-68 44.84	70.2 mF	YR0560.94	900565.17	-0.06	-1.06 -0.02	-4.49
R126 -198	13112	44 24.21	-68 44.96	41.0 mF	YR0561.96	900565.3	-0.06	-1.40 -0.02	-5.29
R127 -199	13810	44 24.17	-68 45.00	99.5 mF	YR0562.93	900565.3	-0.06	-1.50 -0.02	-5.55
R128 -200	14146	44 24.06	-68 45.18	104.5 mF	YR0563.94	900565.4	-0.06	-1.40 -0.02	-5.73
R129 -201	14166	44 24.06	-68 45.20	42.0 mF	YR0564.94	900565.4	-0.06	-1.40 -0.02	-5.91
R130 -202	12064	44 24.02	-68 45.31	116.2 mF	YR0565.94	900564.78	-0.06	-1.63 -0.05	-6.94
R131 -203	1231	44 25.48	-68 45.41	90.4 mF	YR0554.94	900564.72	-0.06	-1.55 -0.04	-6.84
R132 -204	15047	44 25.43	-68 45.48	102.1 mF	YR0557.96	900564.66	-0.06	-1.40 -0.05	-5.61
R133 -205	0	44 25.72	-68 42.71	75.9 mE	YR0558.96	900564.53	-0.06	-1.56 -0.05	-5.65
R134 -206	4116	44 25.67	-68 42.70	82.4 mF	YR0557.45	900564.25	-0.06	-1.81 -0.04	-4.61
R135 -207	7334	70.2	44 25.67	82.5 mF	YR0557.38	900564.17	-0.06	-2.02 -0.04	-4.53
R136 -208	12335	44 25.56	-68 42.78	82.5 mF	YR0557.38	900564.17	-0.06	-2.02 -0.04	-4.44
R137 -209	12335	44 25.45	-68 42.82	95.0 mE	YR0554.94	900564.09	-0.06	-1.55 -0.04	-4.23
R138 -210	15047	44 25.43	-68 42.85	102.1 mF	YR0557.96	900564.64	-0.06	-1.40 -0.05	-5.70
R139 -211	12335	44 25.43	-68 42.90	93.2 mE	YR0558.96	900564.53	-0.06	-1.56 -0.05	-5.88
R140 -212	12335	44 25.41	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R141 -213	2851	44 25.37	-68 42.95	115.1 mF	YR0556.87	900563.12	-0.06	-1.95 -0.05	-12.02
R142 -214	12335	44 25.26	-68 42.92	95.0 mE	YR0554.94	900564.09	-0.06	-1.55 -0.04	-4.23
R143 -215	1673	44 25.20	-68 42.95	97.5 mE	YR0554.96	900564.09	-0.06	-1.55 -0.04	-4.01
R144 -216	2014	44 25.11	-68 42.90	93.2 mE	YR0554.96	900564.09	-0.06	-1.56 -0.05	-4.11
R145 -217	2304	44 25.07	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-10.66
R146 -218	2851	44 25.07	-68 42.97	115.1 mF	YR0556.87	900563.12	-0.06	-1.95 -0.05	-11.75
R147 -219	12335	44 25.06	-68 42.92	95.0 mE	YR0554.94	900564.09	-0.06	-1.55 -0.04	-4.23
R148 -220	12335	44 25.06	-68 42.95	102.1 mF	YR0557.96	900564.53	-0.06	-1.40 -0.05	-5.73
R149 -221	15047	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R150 -222	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R151 -223	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R152 -224	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R153 -225	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R154 -226	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R155 -227	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R156 -228	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R157 -229	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R158 -230	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R159 -231	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R160 -232	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R161 -233	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R162 -234	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R163 -235	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R164 -236	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R165 -237	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R166 -238	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R167 -239	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R168 -240	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R169 -241	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R170 -242	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R171 -243	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R172 -244	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R173 -245	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R174 -246	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R175 -247	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R176 -248	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R177 -249	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R178 -250	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R179 -251	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R180 -252	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R181 -253	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R182 -254	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R183 -255	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R184 -256	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R185 -257	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R186 -258	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R187 -259	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R188 -260	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R189 -261	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R190 -262	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R191 -263	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R192 -264	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R193 -265	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R194 -266	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R195 -267	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R196 -268	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R197 -269	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R198 -270	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R199 -271	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R200 -272	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R201 -273	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R202 -274	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R203 -275	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R204 -276	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R205 -277	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R206 -278	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R207 -279	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R208 -280	12335	44 25.06	-68 42.95	102.0 mF	YR0557.45	900562.00	-0.06	-1.81 -0.04	-11.93
R209 -281	12335	44 25.06	-68 42.95	95.0 mE	YR0554.96	900564.53	-0.06	-1.56 -0.05	-5.87
R									

NEWTONIAN GRAVITY: REDUCED BY USGS N.C. 10, 1971 FURNISH
HUGUER GRAVITY DATA

Master Inv: Worren#40 Date: 03/20/19

STATION sta-id	LONGITUDE deg min dist	LATITUDE deg min	CANT. deg min	LUNAR (in ft)	GRAVITY ME	THERM ME	REFLECTED ME	GRAVITY ME	THERM ME	REFLECTED ME	COMPREHENSIVE CURV		SUPPLEMENTAL		ANOMALIES	
											S	T	U	Rainbow	Curv	AIR
P14 -254	6513 44 21.07	-60 40.83	71.8	ME	YR0546.90	900564.58	-0.03	-2.45	-0.03	0.00	+15.75	-16.44	-16.31			
P15 -260	7047 44 27.01	-60 40.71	66.0	MF	YR0547.17	900564.29	-0.03	-2.27	-0.03	0.00	-15.65	-16.18	-16.25			
P16 -261	7408 44 20.95	-60 40.44	61.8	ME	YR0547.46	900564.21	-0.03	-2.11	-0.03	0.00	-15.93	-16.10	-16.17			
P17 -262	7908 44 26.97	-60 40.52	60.9	MF	YR0547.41	900564.23	-0.03	-2.08	-0.03	0.00	-15.52	-17.06	-17.93			
P18 -263	8317 44 21.07	-60 40.44	70.4	ME	YR0547.04	900564.23	-0.03	-2.01	-0.03	0.00	-15.00	-17.07	-17.75			
P19 -264	6600 44 26.98	-60 40.36	85.2	ME	YR0546.99	900564.24	-0.03	-2.91	-0.04	0.00	-14.25	-17.21	-17.30			
P20 -265	4011 44 26.94	-60 40.28	93.0	ME	YR0546.95	900564.24	-0.02	-5.20	-0.04	0.00	-13.59	-16.95	-16.95			
P21 -266	4591 44 27.00	-60 40.16	80.2	ME	YR0547.90	900564.27	-0.02	-2.75	-0.04	0.00	-13.74	-16.54	-16.62			
P22 -267	16056 44 21.01	-60 40.05	70.3	MF	YR0547.25	900564.29	-0.02	-2.00	-0.03	0.00	-13.67	-16.53	-16.61			
P23 -268	16600 44 21.03	-60 39.92	75.0	ME	YR0548.20	900564.32	-0.01	-2.59	-0.03	0.00	-13.98	-16.01	-16.69			
P24 -269	11115 44 21.06	-60 39.93	74.0	ME	YR0547.74	900564.36	-0.01	-2.12	-0.04	0.00	-14.11	-16.98	-16.96			
P25 -270	11638 44 21.08	-60 39.71	86.2	MF	YR0547.56	900564.39	0.00	-2.94	-0.04	0.00	-13.71	-16.69	-16.78			
P26 -271	12134 44 21.09	-60 39.59	85.4	MF	YR0547.83	900564.41	0.00	-3.51	-0.04	0.00	-13.27	-16.52	-16.41			
P27 -272	12637 44 21.08	-60 39.60	81.5	MF	YR0548.47	900564.49	0.01	-2.18	-0.04	0.00	-10.75	-16.04	-16.13			
P28 -273	13137 44 27.05	-60 39.38	83.0	MF	YR0548.25	900564.54	0.02	-2.86	-0.04	0.00	-13.22	-16.09	-16.18			
P29 -274	13658 44 26.99	-60 39.20	89.3	MF	YR0547.82	900564.56	0.02	-3.05	-0.04	0.00	-13.04	-16.10	-16.20			
P30 -275	14148 44 26.95	-60 39.19	105.1	MF	YR0547.50	900564.50	0.01	-3.02	-0.05	0.00	-12.70	-15.94	-16.05			
P31 -276	14652 44 26.91	-60 39.19	105.7	MF	YR0545.52	900564.13	0.01	-4.29	-0.06	0.00	-11.77	-16.10	-16.23			
P32 -277	15296 44 20.04	-60 39.08	149.4	MF	YR0544.21	900564.06	0.02	-5.11	-0.07	0.00	-10.75	-15.91	-16.07			
P33 -278	15716 44 20.01	-60 39.08	174.3	ME	YR0542.89	900564.98	0.02	-5.45	-0.08	0.00	-9.70	-15.70	-15.88			
P34 -279	16127 44 20.08	-60 39.20	196.3	MF	YR0541.60	900568.94	0.04	-6.69	-0.09	0.00	-8.42	-15.26	-15.76			
P35 -280	16628 44 20.04	-60 39.19	225.0	ME	YR0540.04	900564.88	0.06	-1.10	-0.10	0.00	-7.55	-15.29	-15.52			
P36 -281	17110 44 20.01	-60 39.19	244.6	MF	YR0538.82	900564.82	0.08	-8.35	-0.11	0.00	-6.97	-15.35	-15.60			
P37 -282	17545 44 20.06	-60 39.52	235.0	MF	YR0539.45	900568.76	0.06	-6.01	-0.10	0.00	-7.21	-15.26	-15.51			
P38 -283	18233 44 20.01	-60 39.37	315.0	MF	YR0534.60	900566.09	0.18	-10.74	-0.14	0.00	-4.46	-15.16	-15.48			
P39 -284	18644 44 26.97	-60 39.74	346.3	MF	YR0532.56	900568.63	0.25	-11.89	-0.15	0.00	-3.30	-15.09	-15.40			
P40 -285	19007 44 20.56	-60 39.25	352.4	MF	YR0532.39	900566.61	0.26	-12.62	-0.15	0.00	-3.00	-14.49	-15.35			
P41 -286	243 44 23.06	-60 42.65	75.4	MF	YR0547.23	900564.23	0.04	-2.57	-0.03	0.00	-8.91	-14.55	-14.93			
P42 -287	721 44 23.59	-60 42.60	86.7	MF	YR0547.75	900566.13	0.04	-2.96	-0.04	0.00	-8.23	-14.26	-14.55			
P43 -288	1075 44 23.55	-60 42.50	91.1	MF	YR0547.54	900564.07	0.03	-3.11	-0.04	0.00	-7.91	-14.08	-14.38			
P44 -289	1721 44 23.46	-60 42.00	180.1	ME	YR0540.10	900563.94	-0.04	-5.00	-0.04	0.00	-7.49	-16.57	-16.66			
P45 -290	2000 44 23.44	-60 42.35	64.0	MF	YR0549.52	900563.91	-0.05	-2.20	-0.03	0.00	-8.51	-16.59	-16.66			
P46 -291	2367 44 23.41	-60 42.34	51.3	ME	YR0549.90	900564.86	-0.05	-1.96	-0.03	0.00	-8.23	-16.59	-16.65			
P47 -292	2797 44 23.58	-60 42.70	27.0	MF	YR0521.43	900563.81	-0.06	-3.43	-0.01	0.00	-9.83	-16.03	-16.66			
P48 -293	3269 44 23.56	-60 42.10	47.0	MF	YR0520.21	900563.88	-0.05	-1.63	-0.02	0.00	-9.01	-16.71	-16.77			
P49 -294	3403 44 23.54	-60 42.00	84.2	MF	YR0520.75	900564.75	-0.05	-1.51	-0.02	0.00	-9.34	-16.42	-16.97			
P50 -295	4077 44 23.52	-60 41.90	53.0	MF	YR0519.60	900562.72	-0.05	-1.04	-0.02	0.00	-8.96	-16.69	-16.95			
P51 -296	4561 44 23.47	-60 41.80	44.7	ME	YR0520.21	900563.05	-0.05	-1.52	-0.02	0.00	-9.23	-16.03	-16.87			
P52 -297	5123 44 23.41	-60 41.80	35.9	MF	YR0520.64	900563.55	-0.05	-1.22	-0.02	0.00	-9.54	-16.03	-16.87			
P53 -298	5403 44 23.10	-60 41.72	65.0	MF	YR0520.93	900563.22	-0.05	-2.18	-0.03	0.00	-8.66	-16.05	-16.92			

RHODE ISLAND GRAVITY DATA

NEW ENGLAND GRAVITY: REDUCED BY USGS DEC. 10, 1971 FORMULA

Water TU: Wadsworth Date: 03/20/79

page 10

STATION ID#-1d	LATITUDE deg min	LONGITUDE deg min	C A T I (in ft)	G R A V I T Y mF	U N F U T U R E mF	C O R R E C T I O N S TERRAIN mGAL	C O R R E C T I O N S SPFCIAL	A N O M A L Y S	
								AIR	FREE COMPLETE-HUGUER
RH15-310	44 25.18	-68 41.64	94.6	980547.17	980565.51	-0.03	-5.23	-0.04	-7.44 -10.74 -10.84
RH16-315	44 25.10	-68 41.57	95.1	980547.16	980565.45	-0.03	-5.24	-0.04	-7.34 -10.66 -10.76
RH17-314	44 25.10	-68 41.49	85.4	980547.80	980565.39	-0.04	-2.64	-0.04	-7.75 -10.67 -10.76
RH18-313	44 25.05	-68 41.41	73.3	980548.31	980565.31	-0.04	-2.50	-0.03	-8.11 -10.88 -10.76
RH19-312	44 22.95	-68 41.32	80.5	980547.81	980565.16	-0.04	-2.74	-0.04	-7.73 -10.55 -10.63
RH20-311	44 22.89	-68 41.24	74.2	980547.90	980565.07	-0.04	-2.53	-0.03	-8.13 -10.74 -10.81
RH21-310	44 22.63	-68 41.26	88.4	980547.13	980562.98	-0.03	-5.01	-0.04	-7.54 -10.62 -10.71
RH22-309	44 22.76	-68 41.21	93.3	980546.81	980562.88	-0.03	-5.18	-0.04	-7.29 -10.54 -10.64
RH23-308	44 22.12	-68 41.17	68.7	980548.01	980562.02	-0.04	-2.34	-0.03	-8.26 -10.70 -10.77